

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	ELEVATOR REHABILITATION AT WOLF CREEK	1	Lump Sum	_____	_____

FURNISH AND INSTALL MATERIALS AS REQUIRED TO REHABILITATE
THE POWERHOUSE GEARED TRACTION C2 FREIGHT ELEVATOR.

Section C - Descriptions and Specifications

STATEMENT OF WORK

Section C
Wolf Creek Powerhouse Elevator Rehabilitation
980 Power Plant Road
Jamestown, Kentucky (Russell County) 42629-6501

PART 1 GENERAL

1.1 SCOPE

This section of the specifications consists of furnishing all labor, equipment, materials, hardware, and miscellaneous items necessary to completely furnish, install, and test a new control and drive system for the Wolf Creek Power Plant Elevator in accordance with this section of the specifications and the applicable drawing. The new work shall bring the elevator control and electrical systems and other specified equipment to compliance with the applicable requirements of the 2000 ASME A17.1, Part XV, and other requirements as specified herein. The work covered by this section of the specifications includes, but is not limited to the following items:

- A. Replace the existing motor/generator DC drive motor, geared machine, brake, traction sheave and hoist cables with a complete new machine including AC motor. The new machine shall have equivalent lifting characteristics as the present machine.
- B. Replace the existing elevator controller and selector units with a new microprocessor control system manufactured specifically for elevators of this type. The control system shall be a generic system as manufactured by Motion Controls & Engineering, Elevator Controls Corporation, or an approved equal.
- C. Replace the existing elevator terminal limits switches, terminal slowdown switches, and either provide new mounting brackets or re-use existing mounting hardware where feasible.
- D. Replace all existing elevator wiring including traveling cable/s with new wiring in accordance with these specifications.
- E. Install a new Fireman's Service Station at the designated landing.
- F. Replace the existing governor and car safeties with types engineered for current speed and application.
- G. Replace the existing elevator cartop inspection station with a new "code compliant" control station.
- H. Refurbish existing elevator car door re-opening device, and car door gate switch as required in section 2.1 of the specifications.
- I. Install mechanical hoist-way access switches at both the top and bottom terminal landings, allowing emergency access to the hoistway.
- J. Install a new service call bell on the elevator car-top to alert users that a hall call on another landing is being requested.

1.1.1 This section also includes the removal of the existing replaced elevator related equipment as needed to meet the requirements of this section. All equipment and materials shall be removed by approved field methods. The work shall be carefully done, and any damage to building, piping, equipment, ect., shall be repaired by skilled mechanics of the trades involved, and at no additional cost to the Government.

1.1.2 All removed items shall become the property of the Contractor and shall be removed from the site by the completion of this contract. Accumulation or temporary storage of these items on the site will not be permitted. The Contractor shall include the cost of removing these items in his bid.

1.1.3 These specifications describe the extent and requirements of the work. Variances from these specifications may become necessary by either party and when deemed necessary by the Contractor or the owner, details of such variances and reasons therefore shall be submitted as soon as practicable for review by the Contracting Officer. No variance shall be made without prior written approval of the Contracting Officer.

1.1.4 The Government will assist in handling elevator equipment in an out of the elevator machine room.

1.2. REFERENCES

The publication listed below form a part of this specification to the extent referenced. The publications are referenced to in the text by basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE, INC (ANSI)

ANSI C80.1 (1983) Rigid Steel Conduit – Zinc Coated

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 123 (Rev A-1989) Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A 153 (1982; R 1987) Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME A17.1 (2000) Safety Code for Elevators And Escalators
ASME A17.2 (1986; A17.2a-1986) Inspectors Manual for Elevators and Escalators

NATIONAL ELECTRICAL MANUFACTURERS ASSN (NEMA)

NEMA WC (1988) Cross-Linked-Thermosetting-Polyethylene-Insulated Wire and Cable for the Transmission And Distribution of Electrical Energy

NEMA WC 8 (1988) Ethylene-Propylene-Rubber-Insulated Wire And Cable for the Transmission and Distribution Of Electrical Energy

NATIONAL FIRE PROTECTION ASSN (NEPA)

NEPA 70 (2002) National Electric Code

UNDERWRITERS LABORATORIES (UL)

UL 6 (Oct 23,1981; 9th Ed; Rev, Nov 22,1989)
Rigid Metal Conduit

1.3 GENERAL REQUIREMENTWS

1.3.1 Code Compliance

The installation shall conform to the requirements and recommendations of NFPA No. 70 and ASME A17.1.

1.3.2 Standard Products

Material and equipment shall be the standard products of manufacturers regularly engaged in the fabrication of elevators and/or elevator parts, and shall essentially duplicate items which have been in satisfactory use for at least two years prior to bid opening.

1.3.3 Verification of Dimensions

The Contractor shall become familiar with all details of the work, verify all dimensions in the field and advise the Contracting Officer of any discrepancy before performing any work.

1.3.4 Nameplates

Each major component of equipment, including motors, shall have the manufacturer's name, address, type of style, model or serial number, catalog number, and electrical and mechanical characteristics on a plate secured to the item of equipment.

1.3.5 Prevention of Corrosion

All metallic materials shall be protected against corrosion as specified. Aluminum shall not be used in contact with earth or concrete and where connected to dissimilar metal, shall be protected using materials approve by the Contracting Officer. Ferrous materials such as anchors, bodies, bolts, boxes, braces, clamps, fittings, guards, nuts, studs, thimbles, washers, and miscellaneous parts shall be hot-dip galvanized in accordance with ASTM A 153 for threaded items and ASTM A 123 for other items. An alternate corrosion prevention system may be submitted for approval.

1.4 DESIGN REQUIREMENTS

The existing elevator has the following design and operating characteristics.

Capacity:	5000lbs
Total Weight:	11,490lbs
Drive Motor:	20 hp DC 1100 rpm
Travel Speed:	100 fpm
Overspeed Trip:	175 fpm
MG Set:	15 kW 1750 rpm
MG Set Drive Motor:	440 volt 3 phase AC
Drive Sheave:	30" Traction Type
Cables:	Quantity – 6 5/8" diameter

Design and fabrication of the new control system and its components shall be in accordance with NFPA No. 70 and ASME A17.1. The existing car with new control system shall have the capacity to lift a load, exclusive of the car and cable at a speed as specified in the following schedule. The elevator shall retain the approximate travel, terminal floors, number of stops and openings as shown in the schedule. The elevator shall serve the floors with stops and openings in accordance with the requirements indicated.

Loading:	ASME A17.1 class C2
Capacity:	5,000 pounds
Speed	100 fpm
Travel:	Elevation 539.0 to Elevation 611.0
Landings:	5
Openings:	5

1.4 SUBMITTALS

The submittals described below are those required. Other requirements pertaining to submittals are included in the SPECIAL CLAUSES. Submittals required by the CONTACT CLAUSES and other non-technical parts of the contract are not included in this section.

1.4.1 Detail Drawings

Detail drawings shall consist of a complete list of equipment and materials, including illustrations, schedules, manufacturer's descriptive and technical literature, performance charts, catalog cuts, installation instructions, brochures, diagrams, and other information required for fabrication and installation of the equipment. Detail drawings shall include dimensioned layouts in plan and elevation showing the arrangement of the new elevator equipment.

1.4.2 Qualifications

Certificates of experience of elevator mechanics shall be furnished to the Contracting Officers prior to installation of elevator equipment.

1.4.3 Test Reports

Upon completion and final testing of the installed system, test reports shall be submitted showing all tests data. Each report shall be properly identified.

1.4.4 Operation and Maintenance Manuals

The Contractor shall furnish the Contracting Officer six complete copies of operating instructions outlining the step-by-step procedures for system start up, operation and shutdown. The instructions shall include the manufacturer's name, model number, service manual parts list, and brief description of all equipment and their basic operating features. Operating instructions shall be submitted and approved prior to the training course.

The Contractor shall furnish the Contracting Officer six complete copies of maintenance instructions listing routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guides. The instructions shall include equipment layout and simplified wiring and control diagrams of the system installed. Maintenance instructions shall be submitted and approved prior to the training course.

1.4.5 Posted Instructions

Proposed diagrams, instructions, and other sheets shall be submitted prior to posting.

1.4.6 Spare Parts Data

After approval of the detail drawings, and not later than two months prior to the date of beneficial occupancy, the Contractor shall furnish spare parts data for each different item of material and equipment specified. The data shall include a complete list of parts and supplies, with current source of supply, and a list of the parts recommended to be replaced and replacement interval required.

1.5 QUALIFICATIONS

1.5.1 Bidders

Bidders shall have at least five years successful experience in installing and servicing elevators of the type specified. In addition, the bidder shall have comparable installations operating successfully for at least two years. To be considered comparable, prior installations shall have not less than the same number of elevators specified for this project. A list of the prior comparable installations by the bidder, together with the names and addresses of the buildings, the names of the owners or managers thereof, and any other pertinent information may be required to be submitted promptly upon request by the government. The bid may be rejected if the bidder has established on former jobs, a record for unsatisfactory elevator installations, has repeatedly failed to complete contracts awarded to him within the contract time, or otherwise fails to meet the experience requirements of this clause.

1.5.2 Qualification of Elevator Mechanics

Elevator mechanics employed to install, supervise and test the elevator control system shall be certified to have not less than two years experience installing, supervising and testing elevators of the type and rating specified. Helpers or apprentices with less than two years experience will be permitted to work under the direct supervision of and elevator mechanic.

1.6 ELECTRICAL SERVICE

Electrical service for elevator machines in 480 volt, 60-Hertz, 3-phase alternating current, ungrounded service. This service is provided from a 50-ampere circuit breaker located in the "U7-480 V Pump and Compressor Bus" motor control center of the Power Plant. The service consists of 3 No. 8 A.W.G. conductors with a length of approximately 324 feet to the existing elevator disconnect switch. The Contractor shall investigate the operating characteristics of the existing elevator machinery and shall verify that the existing service has adequate ampacity and overcurrent protection to continue to provide service with the new control system. If modification to the electrical service is required, the Contractor shall submit drawings, calculations, and other data required by the contracting Officer to verify the new load requirements. A separate electric service for elevator car lighting is 120-volt, single phase, 60-Hertz grounded service.

PART 2 PRODUCTS

2.1 ELEVATOR CAR

All electrical wiring on the elevator car shall be removed and replaced with new wiring in conformance with Paragraph 3.2, "Elevator Wiring". All electrical control equipment on the car, including electrical protective devices and contacts, shall be removed and replaced. Any new additional equipment shall be provided as required for conformance to ASME A17.1, part XV. The existing car operating panel and car lighting fixtures shall remain in service.

2.1.1 Gates

The existing car gate shall be provided with a new motor driven electric operator as required in paragraph 2.9. The car gate shall be provided with a new electrical service contact which shall prevent operation of the elevator car unless the gate is closed. The car gate shall be provided with other interlocks and safety contacts needed to meet the requirements of ASME A17.1. The lower edge of the gate panel shall be provided with a safety edge to stop the downward motion of the gate when it encounters an obstruction.

2.2 ELEVATOR ENTRANCES/HOISTWAY DOORS

Hoistway entrances are power operated, vertical, bi-parting counterbalanced doors, regular type. Provide new power/control devices and components for the operation of the electric motors for the hoistway doors at each of

the five landings. Existing mechanical operating components shall be cleaned, adjusted and reused. If replacement of mechanical components is required, they shall be removed and replaced in accordance with paragraph 2.9.

2.2.2. Hoistway Door Interlocks

Replace or refurbish like new each hoistway door interlock. Each interlock shall meet or exceed the requirements of A17.1

2.3 ELEVATOR OPENING AND SIGNAL FIXTURES

The existing car operating panel and hall call stations shall remain in service, but shall be rewired as specific in paragraph 3.2.

2.3.1 Hoistway Access Switch

A new hoistway access switch shall be located at the lower terminal floor and properly coordinated with the operation of the new control system.

2.4 ELEVATOR MACHINERY

2.4.1 Existing geared hoisting machine for the passenger elevator is to be replaced completely. Machine including brake, drive sheave, and motor shall be new. Elevator contractor shall provide the most efficient speed of the new elevator system for this hoist-way.

2.4.2 Control equipment shall have suitable characteristics, in connection with the new hoist motor. In order to produce an average rate of acceleration under full load of not less than 3½ feet per second and not more than 7 feet per second measured from the start of car motion to the time of attaining 80 percent of the contract speed. The rate of acceleration shall be adjustable and the final adjustment shall not produce any objectionable physiological effects on the passengers.

2.4.3 Insulation resistance between conductors and the frame of motors shall not be less than one megohm.

The armature with the sheave and brake drum shall be mechanically balanced. All coils shall be impregnated to prevent the absorption of moisture and oil.

2.4.4 All hoist and governor cables shall be replaced with new cables. Contractor to size cables relative to machine supplied. New secondary or deflector sheaves shall be securely mounted in proper alignment with traction sheave. The rope grooving for secondary, deflector and idler sheaves shall be semi-circular at the bottom to provide a smooth rope bed. Secondary sheaves shall be provided with sheave guards which will withstand shock and prevent ropes from leaving their proper grooves. Two to one idler sheaves on car and counterweight shall be provided with a metal guard which will prevent foreign objects from falling between ropes and sheave grooves, prevent ropes jumping off grooves in case of accident, and prevent accidental fouling by, or injury to, workmen on top of the car.

2.4.5 Provide new brake system. Adjust the new brake assembly according to code.

2.5 AUTOMATIC SIPLEX SELECTIVE/COLLECTIVE ELEVATOR OPERATION

2.5.1 General

Existing operating devices consist of a series of push buttons in the car numbered to correspond to the various landings, up and down buttons at the intermediate landings, and a single button at the terminal landing. These operating devices shall be reconnected to the new control system which shall govern floor selection, direction of travel, acceleration and retardation, to supply the operation described herein.

2.5.2 Elevator Call Registration

Car calls shall be registered by passengers within the car by momentary pressing of the button corresponding to the floors which they wish to go. Corridor calls shall be registered by the momentary pressing of the buttons in the corridor push-button fixture. Once the demand for elevator service has been the operation shall be as follows:

2.5.3 Operation

When the car gate and hoistway doors are fully closed and the interlock circuit established, the car shall start, accelerate, and decelerate automatically and stop at the first floor for which a car button has been registered, or at the first corridor floor for a demand which has been assigned to the car. The car shall stop, in the order in which the floors are reached by the car, at all floor for which calls have been registered, irrespective of the sequence in which the buttons have been pressed, provided the button for a given floor has been pressed sufficiently in advance of the car's arrival at that floor to permit the stop to be made. If no car buttons have been pressed, and the car starts up in response to several down calls, the car shall travel to the highest down call first and the reverse to collect other down calls. Up calls shall be collected in the same way when the car starts down in response to up calls, by first stopping for the lowest up call registered. When a car has stopped in response to the pressing of a landing button and a car button is pressed corresponding to the direction in which the car has been traveling, within a predetermined interval of time after the stop, the car shall continue in that direction, regardless of other landing calls registered. While the car is in motion, landing calls in the opposite direction of the car movement shall not affect the operation of the car, but calls shall remain registered. After the last car call in the direction the car is traveling has been answered, the car shall automatically reverse and answer registered landing calls and all car calls in the order the landings are reached. When all calls have been answered, the car shall park at the landing at Elevation 595.0 with the doors closed.

2.5.3.1 Emergency Stop Switch

The existing emergency stop switch on the car operating panel shall be connected in the new control system. The switch shall interrupt the power supply and apply the brakes, independently of the regular operating device. The opening of this switch shall not cancel the registered calls, after this switch is again closed, the car shall continue to answer its various calls.

2.5.3.2 Non-Stop Switch

The existing non-stop switch on the car operating panel shall be connected in the new control system. After the car has started, constant pressure on the non-stop switch shall permit the car to by-pass hall calls.

2.5.3.3 Service-Demand Bell

A new service-demand bell shall be provided in the car and shall sound when a landing button is pressed while a door is open.

2.5.3.4 Car Dispatch

When the car does not receive a demand dispatch after it has answered all calls and returned to Elevation 595.0 for an adjustable time period up to ten minutes, set initially at five minutes, the motor drive unit shall be switched off. When a demand dispatch is received by the car when its motor drive unit is switched off, it shall automatically restart.

2.6 TERMINAL STOPPING DEVICES

All existing normal, final, and emergency terminal stopping devices shall be removed and new terminal stopping devices provided and installed as required by ASME A17.1. New wiring shall be provided to the devices

as specified in paragraph 3.2. The new terminal stopping devices shall comply with Section 209 and other applicable requirements of ASME A17.1.

2.7 LEVELING DEVICES

A new two-way automatic maintaining leveling device shall be installed on the elevator to automatically bring the car to the floor landings. Car shall automatically relevel at each landing to correct overtravel and undertravel and maintain level, regardless of load on the car, rope slippage or stretch of cables. Electric stopping system shall be arranged so the car will stop level with the floor before the brake is set. The stopping accuracy shall not exceed plus or minus ¼ inch.

2.8 CONTROL SYTEM (VARIABLE VOLTAGE)

2.8.1 General

Except as other specified, the entire control system of the elevator shall be completely removed and replaced, including but not limiting to the following components: controller, electrical contacts, electrical protective devices (as defined by ASME A 17.1 Rule 210.2), control and operating circuits, and wiring. New additional equipment shall be provided and installed so that the complete elevator control and electrical systems shall be in accordance with ASME A17.1, Part XV and other requirements as specified herein.

2.8.2 Performance

The control system shall govern the starting, stopping and direction of travel of the elevator and provide the operation specified. Control equipment shall provided smooth acceleration from stop to full speed, deceleration and landing stops under any load condition from no load to full rated load. This smooth operation shall be obtained under stable conditions which provide for maximum time from start of car motion to floor level at the next floor not exceeding that of the present operation. The time from door close to start of car motion shall not exceed 0.7 second with a balanced load. The cycle time, which is the time from start of door close to door fully open at the next typical floor, shall not exceed that of the present operation, with a maximum premature door opening of 3 inches from the floor. Acceleration control shall be adjustable.

2.8.3 Controllor

Electric controller shall be microprocessor state of the art system as manufactured by Elevator Controls Corporation, Motion Controls Engineering or an approved equal. Components required for proper performance of the elevator shall be neatly mounted and wired, and completely enclosed in a cabinet with a mechanically latched door.

2.8.4 The elevator shall be provided with a new solid state power converter to apply variable voltage and variable frequency power to the elevator motor armature. This shall be of adequate size to handle the new hoist machine drive motor. The converter shall, during acceleration and deceleration periods, gradually change the voltage and/or frequency applied to the elevator motor without interruption of power to the motor to provide smooth acceleration, deceleration and running speeds, and accurate floor stops. All safety circuits shall conform to ANSI A17.1 2000 with supplements. Line filters, noise spike or notching suppressor and isolation transformers shall be provided, (when required), to ensure electrical harmonic feedback to power source shall not affect other electrical equipment or computer operated equipment in the building. Resilient isolators shall be provided to support all drives & transformers. Audible noise shall not exceed 70 decibels under any operating condition.

A. The motor drive unit shall be equipped with devices which shall limit the current applied to the hoisting motor to that required for actual specified duty, and shall prevent damage to hoist motor from overload, over voltage, or excessive current.

B. In case of brake application under normal operation, the hoist motor shall be slowed down electrically, through a dynamic braking effect, so it will be practically stopped at the instant of brake application.

C. Motor drive unit components shall be installed in a NEMA 1 enclosure located in the machine room. All components shall be conservatively rated to provide a life of not less than 80,000 hours. All electric connections between the electric feeder, the motor drive unit, and the elevator hoist motor shall be made with suitable connectors or to suitable terminal blocks.

2.8.5 Solid-State Motor Drive (VFD Drive) shall have the following minimum requirements:

A. The car controller signals shall be fully isolated from the drive. A suitable speed reference signal shall be provided by a device mounted either on the car or the machine.

B. Current limiting circuitry shall be provided for the drive and the motor.

C. Fans shall be provided to dissipate the heat generated by the drive.

D. A fast acting fuse shall be connected in series with each line to protect against current surges.

E. If required, a high precision tach-generator with mounting hardware shall be provided

2.9 ELEVATOR HOISTWAY DOORS AND CAR GATE OPERATORS

2.9.1 General

Retain existing vertical bi-parting hoistway doors and vertical sliding car gate. The existing electric contactors and their associated controls shall be removed and replaced. The new control system shall provide controls for power opening and closing. Retain motors, located in the hoistway or on the elevator car, shall be provided to open and close the car gates at a speed of not less than 1 foot per second, and shall be arranged for sequence operation. Existing "DOOR OPEN", "DOOR CLOSE", buttons located in the car operating panel and the hall call stations shall be reused in the new control system. The car gate and the hoistway door operators shall be arranged to permit opening from within the car in the event of a power failure. Single operator motor shall be provided for the car gate, and two operator motors shall be provided for each hoistway entrance.

2.9.2 Hoistway Doors and Car Gate

The hoistway doors and car gate shall open automatically when the elevator car arrives at a landing. The operation shall be semi-selective. The closing of the doors and gate in sequence operation shall be obtained by constant pressure on the "DOOR CLOSE" button in the car operating panel and hall button station. Releasing the pressure of the button shall stop the closing movement of the doors and gate. Momentary pressure of the "DOOR OPEN" button shall reopen the doors and gate. Momentary pressure on the "DOOR STOP" button shall stop the door and gate travel. The doors and gate shall accelerate and decelerate smoothly, and shall be checked in both the opening and closing motions. All power operated doors shall be equipped with automatic closers. The doors shall close automatically after an adjustable time delay (0 to 300 seconds) has expired, or by continuous pressure on the "DOOR CLOSE" button. The door open time delay will be automatically reset by either momentary pressure of the "DOOR OPEN" button or by activation of the car gate safety edge.

2.9.3 Lubrication Points

Every part subject to movement friction shall have provision for lubrication with oil or grease. All points of lubrication shall be readily accessible.

PART 3 EXECUTION

3.1 INSTALLATION

All equipment shall be installed in accordance with ASME A17.1 and the manufacturer's recommendation.

3.2 ELEVATOR WIRING

All electrical wiring associated with the elevator including all power and control wiring of the elevator car, for the operating machinery, and wiring located in the hoistway including the traveling cables shall be completely removed and replaced. New wiring shall also be provided and installed for all new electrical equipment and devices that are required by these specifications so that the elevator control and electrical systems shall be complete and ready for operation. All wiring shall comply with the requirements of NFPA 70. The minimum size wire permitted shall be No. 18 AWG for control and signal circuits, and NO. 12 AWG for power and lighting circuits. Work light fixtures and grounded duplex receptacles shall be provided on the top and bottom of the car for 150 watt incandescent lamps. Fixtures shall have wire lamp guards and toggle switches. Work light fixtures and traveling cable junction boxes shall be so located that the work lights will provide illumination at the junction boxes.

3.2.1 Wiring

Except for short sections, wiring, excluding traveling cables, shall be in rigid conduit. Galvanized rigid conduit shall conform to ANSI C80.1 and UL 6. Short sections of wire which may require shifting to connect to switches and equipment may be installed in liquid tight flexible metal conduit. Conduit shall terminate in junction boxes. Wires shall be identified and match symbols shown on the wiring diagrams. Control and signal wires shall be brought to accessible numbered terminal blocks on the controller. Intra-panel wiring shall be flame-resisting type.

3.2.2 Traveling Cables

The cables shall terminate at numbered terminal blocks in the car and machine room. Traveling cable shall be provided with a separate shielded circuit for communication system, and shall be hung so that the proper size loop may be obtained and shall be provided with 10 percent spare conductors for each car.

3.3 PAINTING

Except for factory finished items, corrosion resistant items, and machined surfaces all steel surfaces exposed to atmosphere shall be painted in accordance with the manufacturers standard for this type of product.

3.3.1 Inaccessible Areas

Areas which will be inaccessible for painting after fabrication or assembly shall be prepared and painted prior to becoming inaccessible.

3.3.2 Painting Procedure

All surfaces to be painted shall be clear of all oil, grease, or other surface contaminants, then shall be prepared in accordance with the paint manufacturer's printed instructions.

3.4 ADJUSTMENTS

After installation is substantially complete, all tests in accordance with A17.1 are complete the elevator is in use by the Government, the Contractor shall provide a 30-day period for adjustments to achieve proper operation. Adjusting shall be in accordance with the applicable provision of ASME A17.1. Adjustments of the installation by competent and trained elevator mechanics shall be performed during the regular working hours of regular working days and shall include adjusting, lubricating and cleaning of equipment, and furnishing required supplies and parts, except such parts made necessary by misuse, accident or negligence not caused by the Contractor.

3.5 TESTING

Testing shall be in accordance with the requirements of ASME A17.1 and ASME A17.2 and as specified below. The Contractor shall notify the Contracting Officer in writing, 7 (seven) days prior to the time of performing the acceptance test. The Contractor shall furnish all test instruments and material required for final inspection. If any deficiencies are revealed during any test, such deficiencies shall be corrected and the tests re-conducted.

3.5.1 Test Period

The elevator shall be tested for a period of one hour of continuous run with 80% of the specified rated load in the car. During the test run, the car shall be stopped at all floors in both directions of travel for a standing period of 10 seconds per floor. A manual test of the final limits (up and down overtravel) shall also be performed.

3.5.2 Speed Load Tests

The actual speed of the elevator car in both directions of travel shall be determined with the rated load and with no load in the elevator car. The actual measured speed of elevator car with the rated load in the up direction shall be within 5 percent of rated speed. The maximum difference in actual measured speeds obtained under the various conditions outlined shall not exceed 10 percent of the total difference between the up and the down speeds.

3.5.3 Car Leveling Test

Elevator cars leveling devices shall be tested for accuracy of landing at all floors with no load in car, symmetrical load in car, and with the rated load in car both directions of travel.

3.5.4 Insulation Resistance Tests

The complete wiring systems of the elevator shall be free from short circuits and grounds. Conductors shall have an insulation resistance of not less than one megohm between each conductor and ground, and between each conductor and all other conductors.

3.6 OPERATOR TRAINING

The Contractor shall conduct a training course for the operating staff as designated by the Contracting Office. The training period, shall consist of a total 8 hours of normal working time and shall start after the system is functionally completed but prior to final acceptance tests. The field instructions shall cover all of the items contained in the operating and maintenance instructions, As well as demonstrations of routine maintenance operations.

3.6 FRAMED INSTRUCTIONS

Framed instructions under glass or in laminated plastic, including wiring and control diagrams showing the complete layout of the entire system, shall be posted in the elevator machine room where directed. Condensed operating instructions explaining preventive maintenance procedures, methods of checking the system for normal safe operations, and procedures for safely starting and stopping the system shall be prepared in typed for, framed as specified above for the wiring and control diagrams and posted beside the diagrams. The framed instructions shall be posted before acceptance testing of the system.

Section F - Deliveries or Performance

CLAUSES INCORPORATED BY REFERENCE

52.242-17 Government Delay Of Work

APR 1984

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	MAY 1999
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.249-4	Termination For Convenience Of The Government (Services) (Short Form)	APR 1984
252.204-7004	Required Central Contractor Registration	NOV 2001
252.225-7017	Prohibition on Award to Companies Owned by the People's Republic of China	FEB 2000
252.243-7001	Pricing Of Contract Modifications	DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (MAY 2002)

(a) Definitions. As used this clause--

"Commercial item", has the meaning contained in the clause at 52.202-1, Definitions.

"Subcontract", includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)(1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.219-8, Utilization of Small Business Concerns (OCT 2000) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (APR 2002) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212(a)).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

(v) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (JUN 2000) (46 U.S.C. Appx 1241) (flowdown not required for subcontracts awarded beginning May 1, 1996).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

Section K - Representations, Certifications and Other Statements of Offerors

CLAUSES INCORPORATED BY FULL TEXT

52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

“Common parent,” as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

“Taxpayer Identification Number (TIN),” as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

___ TIN:_____

___ TIN has been applied for.

___ TIN is not required because:

___ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

___ Offeror is an agency or instrumentality of a foreign government;

___ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

___ Sole proprietorship;

___ Partnership;

___ Corporate entity (not tax-exempt);

___ Corporate entity (tax-exempt);

___ Government entity (Federal, State, or local);

___ Foreign government;

___ International organization per 26 CFR 1.6049-4;

___ Other _____

(f) Common parent.

___ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

___ Name and TIN of common parent:

Name _____

TIN _____

(End of provision)

Section L - Instructions, Conditions and Notices to Bidders

CLAUSES INCORPORATED BY REFERENCE

52.204-6	Data Universal Numbering System (DUNS) Number	JUN 1999
52.211-6	Brand Name or Equal	AUG 1999
52.216-1	Type Of Contract	APR 1984

CLAUSES INCORPORATED BY FULL TEXT

52.213-4 TERMS AND CONDITIONS--SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (JUL 2002)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-3, Convict Labor (Aug 1996) (E.O. 11755).

(ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).

(iii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).

(iv) 52.225-13, Restrictions on Certain Foreign Purchases (July 2000) (E.O.'s 12722, 12724, 13059, 13067, 13121, and 13129).

(v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).

(2) Listed below are additional clauses that apply:

(i) 52.232-1, Payments (Apr 1984).

(ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).

(iii) 52.232-11, Extras (Apr 1984).

(iv) 52.232-25, Prompt Payment (Feb 2002).

(v) 52.233-1, Disputes (Jul 2002).

(vi) 52.244-6, Subcontracts for Commercial Items and Commercial Components (Mar 2001).

(vii) 52.253-1, Computer Generated Forms (Jan 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-20, Walsh-Healey Public Contracts Act (DEC 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).

(ii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).

(iii) 52.222-36, Affirmative Action for Workers with Disabilities (APR 1984) (29 U.S.C. 793) (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.).

(iv) 52.222-37, Employment Reports on Disabled Veterans and Veterans of the Vietnam Era (JAN 1999) (38 U.S.C. 4212) (Applies to contracts over \$10,000).

(v) 52.222-41, Service Contract Act, As Amended (May 1989) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands.).

(vi) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Dec 2001) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)

(vii) 52.223-5, Pollution Prevention and Right-to-Know Information (APR 1998) (E.O. 12856) (Applies to services performed on Federal facilities).

(viii) 52.225-1, Buy American Act --Supplies (May 2002) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use within the United States if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the acquisition--

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(ix) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (June 2000) (46 U.S.C. 1241). (Applies to supplies transported by ocean vessels.)

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(x) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (May 1999). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)

(xi) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (May 1999). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)

(2) Listed below are additional clauses that may apply:

(i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JULY 1995) (Applies to contracts over \$25,000).

(ii) 52.211-17, Delivery of Excess Quantities (SEPT 1989) (Applies to fixed-price supplies).

(iii) 52.247-29, F.o.b. Origin (JUN 1988) (Applies to supplies if delivery is f.o.b. origin).

(iv) 52.247-34, F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR 52.252-2, Clauses Incorporated by Reference (FEB 1998). This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://farsite.hill.af.mil>

<http://www.dtic.mil/dfars>

(d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights--

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

WAGE DETERMINATION

BRS Document Viewer

WAGE DETERMINATION NO: 94-2497 REV (20) AREA: TN,NASHVILLE

WAGE DETERMINATION NO: 94-2497 REV (20) AREA: TN,NASHVILLE

REGISTER OF WAGE DETERMINATIONS UNDER

U.S. DEPARTMENT OF LABOR

FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL

WASHINGTON D.C. 20210

William W.Gross
DirectorDivision of
Wage Determinations

Wage Determination No.: 1994-2497

Revision No.: 20

Date Of Last Revision: 07/26/2002

—
States: Kentucky, Tennessee

Area: Kentucky Counties of Adair, Allen, Barren, Clinton, Cumberland,

Metcalf, Monroe,

Russell, Simpson

Tennessee Counties of Bedford, Cannon, Cheatham, Clay, Davidson, De Kalb,

Dickson, Hickman,

Houston, Humphreys, Jackson, Lewis, Macon, Marshall, Maury, Perry, Putnam,

Robertson,

Rutherford, Smith, Sumner, Trousdale, Warren, White, Williamson, Wilson

—
Fringe Benefits Required Follow the Occupational Listing

OCCUPATION TITLE

MINIMUM WAGE RATE

Administrative Support and Clerical Occupations

Accounting Clerk I	8.94
Accounting Clerk II	11.23
Accounting Clerk III	13.24
Accounting Clerk IV	15.70
Court Reporter	11.84
Dispatcher, Motor Vehicle	14.23
Document Preparation Clerk	9.69
Duplicating Machine Operator	9.69
Film/Tape Librarian	9.50
General Clerk I	7.31
General Clerk II	8.34
General Clerk III	9.39
General Clerk IV	10.56
Housing Referral Assistant	15.39
Key Entry Operator I	8.39
Key Entry Operator II	10.78
Messenger (Courier)	8.73
Order Clerk I	9.35
Order Clerk II	11.70
Personnel Assistant (Employment) I	9.98
Personnel Assistant (Employment) II	11.01
Personnel Assistant (Employment) III	14.67
Personnel Assistant (Employment) IV	13.94
Production Control Clerk	15.12

Rental Clerk	9.58
Scheduler, Maintenance	11.77
Secretary I	11.77
Secretary II	14.42
Secretary III	15.39
Secretary IV	18.01
Secretary V	19.90
Service Order Dispatcher	11.71
Stenographer I	8.61
Stenographer II	9.66
Supply Technician	18.01
Survey Worker (Interviewer)	11.64
Switchboard Operator-Receptionist	10.29
Test Examiner	14.42
Test Proctor	14.42
Travel Clerk I	9.55
Travel Clerk II	10.12
Travel Clerk III	10.79
Word Processor I	10.74
Word Processor II	15.95
Word Processor III	16.29
Automatic Data Processing Occupations	
Computer Data Librarian	10.23
Computer Operator I	11.21
Computer Operator II	12.56
Computer Operator III	13.72
Computer Operator IV	15.31
Computer Operator V	16.97
Computer Programmer I (1)	13.79
Computer Programmer II (1)	17.07
Computer Programmer III (1)	21.81
Computer Programmer IV (1)	26.39
Computer Systems Analyst I (1)	22.40
Computer Systems Analyst II (1)	27.62
Computer Systems Analyst III (1)	27.62
Peripheral Equipment Operator	30.38
Automotive Service Occupations	
Automotive Body Repairer, Fiberglass	11.86
Automotive Glass Installer	17.27
Automotive Worker	15.67
Electrician, Automotive	15.89
Mobile Equipment Servicer	16.77
Motor Equipment Metal Mechanic	13.55
Motor Equipment Metal Worker	17.47
Motor Vehicle Mechanic	15.89
Motor Vehicle Mechanic Helper	15.97
Motor Vehicle Upholstery Worker	12.88
Motor Vehicle Wrecker	15.03
Painter, Automotive	15.89
Radiator Repair Specialist	16.67
Tire Repairer	15.89
Transmission Repair Specialist	11.75
Food Preparation and Service Occupations	
Baker	11.27
Cook I	8.32
Cook II	9.31
Dishwasher	7.49
Food Service Worker	7.85
Meat Cutter	10.64
Waiter/Waitress	6.89

Furniture Maintenance and Repair Occupations	
Electrostatic Spray Painter	14.42
Furniture Handler	11.07
Furniture Refinisher	15.92
Furniture Refinisher Helper	12.72
Furniture Repairer, Minor	14.21
Upholsterer	14.42
General Services and Support Occupations	
Cleaner, Vehicles	7.85
Elevator Operator	7.77
Gardener	10.43
House Keeping Aid I	7.07
House Keeping Aid II	7.85
Janitor	7.77
Laborer, Grounds Maintenance	8.63
Maid or Houseman	7.07
Pest Controller	11.15
Refuse Collector	7.85
Tractor Operator	9.80
Window Cleaner	8.62
Health Occupations	
Dental Assistant	11.20
Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	13.27
Licensed Practical Nurse I	11.02
Licensed Practical Nurse II	12.36
Licensed Practical Nurse III	13.83
Medical Assistant	11.62
Medical Laboratory Technician	12.18
Medical Record Clerk	11.88
Medical Record Technician	14.89
Nursing Assistant I	8.69
Nursing Assistant II	9.76
Nursing Assistant III	10.66
Nursing Assistant IV	11.95
Pharmacy Technician	12.19
Phlebotomist	12.18
Registered Nurse I	16.77
Registered Nurse II	20.52
Registered Nurse II, Specialist	20.52
Registered Nurse III	24.83
Registered Nurse III, Anesthetist	24.83
Registered Nurse IV	29.74
Information and Arts Occupations	
Audiovisual Librarian	15.99
Exhibits Specialist I	15.80
Exhibits Specialist II	19.57
Exhibits Specialist III	23.87
Illustrator I	17.70
Illustrator II	21.93
Illustrator III	26.76
Librarian	19.09
Library Technician	11.64
Photographer I	14.03
Photographer II	16.42
Photographer III	20.34
Photographer IV	24.82
Photographer V	30.11
Laundry, Dry Cleaning, Pressing and Related Occupations	
Assembler	6.90
Counter Attendant	6.90

Dry Cleaner	7.72
Finisher, Flatwork, Machine	6.90
Presser, Hand	6.90
Presser, Machine, Drycleaning	7.59
Presser, Machine, Shirts	6.90
Presser, Machine, Wearing Apparel, Laundry	6.90
Sewing Machine Operator	9.06
Tailor	9.93
Washer, Machine	7.42
Machine Tool Operation and Repair Occupations	
Machine-Tool Operator (Toolroom)	15.80
Tool and Die Maker	16.72
Material Handling and Packing Occupations	
Forklift Operator	12.45
Fuel Distribution System Operator	13.38
Material Coordinator	13.40
Material Expediter	13.40
Material Handling Laborer	12.25
Order Filler	10.65
Production Line Worker (Food Processing)	12.47
Shipping Packer	11.50
Shipping/Receiving Clerk	11.50
Stock Clerk (Shelf Stocker; Store Worker II)	12.12
Store Worker I	8.85
Tools and Parts Attendant	12.47
Warehouse Specialist	12.47
Mechanics and Maintenance and Repair Occupations	
Aircraft Mechanic	15.02
Aircraft Mechanic Helper	12.47
Aircraft Quality Control Inspector	17.05
Aircraft Servicer	14.04
Aircraft Worker	14.81
Appliance Mechanic	16.58
Bicycle Repairer	11.75
Cable Splicer	17.99
Carpenter, Maintenance	14.42
Carpet Layer	14.81
Electrician, Maintenance	16.56
Electronics Technician, Maintenance I	15.26
Electronics Technician, Maintenance II	16.00
Electronics Technician, Maintenance III	16.68
Fabric Worker	13.97
Fire Alarm System Mechanic	16.30
Fire Extinguisher Repairer	13.26
Fuel Distribution System Mechanic	16.52
General Maintenance Worker	15.03
Heating, Refrigeration and Air Conditioning Mechanic	15.72
Heavy Equipment Mechanic	15.02
Heavy Equipment Operator	15.02
Instrument Mechanic	16.30
Laborer	7.85
Locksmith	15.57
Machinery Maintenance Mechanic	15.51
Machinist, Maintenance	16.78
Maintenance Trades Helper	11.56
Millwright	19.00
Office Appliance Repairer	15.57
Painter, Aircraft	16.67
Painter, Maintenance	14.42
Pipefitter, Maintenance	17.05

Plumber, Maintenance	16.65
Pneudraulic Systems Mechanic	16.30
Rigger	16.30
Scale Mechanic	14.81
Sheet-Metal Worker, Maintenance	15.37
Small Engine Mechanic	13.66
Telecommunication Mechanic I	16.67
Telecommunication Mechanic II	17.50
Telephone Lineman	16.67
Welder, Combination, Maintenance	15.02
Well Driller	15.24
Woodcraft Worker	16.52
Woodworker	12.16
Miscellaneous Occupations	
Animal Caretaker	8.52
Carnival Equipment Operator	9.84
Carnival Equipment Repairer	10.41
Carnival Worker	7.77
Cashier	7.15
Desk Clerk	8.10
Embalmer	16.57
Lifeguard	7.56
Mortician	17.88
Park Attendant (Aide)	9.50
Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	7.56
Recreation Specialist	9.29
Recycling Worker	9.89
Sales Clerk	7.56
School Crossing Guard (Crosswalk Attendant)	7.85
Sport Official	6.57
Survey Party Chief (Chief of Party)	10.59
Surveying Aide	7.15
Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	9.50
Swimming Pool Operator	11.79
Vending Machine Attendant	9.89
Vending Machine Repairer	11.79
Vending Machine Repairer Helper	9.89
Personal Needs Occupations	
Child Care Attendant	6.92
Child Care Center Clerk	9.93
Chore Aid	7.06
Homemaker	11.03
Plant and System Operation Occupations	
Boiler Tender	16.52
Sewage Plant Operator	15.86
Stationary Engineer	16.52
Ventilation Equipment Tender	12.47
Water Treatment Plant Operator	14.62
Protective Service Occupations	
Alarm Monitor	8.82
Corrections Officer	15.34
Court Security Officer	15.34
Detention Officer	15.34
Firefighter	15.42
Guard I	7.85
Guard II	8.82
Police Officer	15.26
Stevedoring/Longshoremen Occupations	
Blocker and Bracer	14.01
Hatch Tender	14.01

Line Handler	14.01
Stevedore I	12.08
Stevedore II	14.73
Technical Occupations	
Air Traffic Control Specialist, Center (2)	28.21
Air Traffic Control Specialist, Station (2)	19.46
Air Traffic Control Specialist, Terminal (2)	21.43
Archeological Technician I	13.75
Archeological Technician II	15.39
Archeological Technician III	19.05
Cartographic Technician	19.39
Civil Engineering Technician	17.69
Computer Based Training (CBT) Specialist/ Instructor	21.15
Drafter I	9.57
Drafter II	13.14
Drafter III	16.78
Drafter IV	19.05
Engineering Technician I	14.91
Engineering Technician II	16.63
Engineering Technician III	21.00
Engineering Technician IV	24.64
Engineering Technician V	30.21
Engineering Technician VI	36.54
Environmental Technician	16.07
Flight Simulator/Instructor (Pilot)	25.27
Graphic Artist	17.70
Instructor	18.07
Laboratory Technician	13.77
Mathematical Technician	20.98
Paralegal/Legal Assistant I	13.55
Paralegal/Legal Assistant II	16.92
Paralegal/Legal Assistant III	20.64
Paralegal/Legal Assistant IV	24.75
Photooptics Technician	22.40
Technical Writer	21.37
Unexploded (UXO) Safety Escort	17.93
Unexploded (UXO) Sweep Personnel	17.93
Unexploded Ordnance (UXO) Technician I	17.93
Unexploded Ordnance (UXO) Technician II	21.70
Unexploded Ordnance (UXO) Technician III	26.01
Weather Observer, Combined Upper Air and Surface Programs (3)	13.77
Weather Observer, Senior (3)	15.37
Weather Observer, Upper Air (3)	13.77
Transportation/ Mobile Equipment Operation Occupations	
Bus Driver	12.87
Parking and Lot Attendant	16.13
Shuttle Bus Driver	9.11
Taxi Driver	8.11
Truckdriver, Heavy Truck	17.08
Truckdriver, Light Truck	9.11
Truckdriver, Medium Truck	14.81
Truckdriver, Tractor-Trailer	17.45

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.15 an hour or \$86.00 a week or \$372.67 a month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 10 years, and 4 after 15 years. Length of service includes the whole span of continuous service with the present contractor or

successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173) HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered): 1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156) 2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges. A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

** UNIFORM ALLOWANCE **

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance: The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility

of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining

agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

** NOTES APPLYING TO THIS WAGE DETERMINATION **

Source of Occupational Title and Descriptions: The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the

Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 SF 1444}

Conformance Process: The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section

4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation)and computes a proposed rate).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work. 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4). 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request. 5) The contracting officer transmits the Wage and Hour decision to the contractor.

6) The contractor informs the affected employees. Information required by the Regulations must be submitted on SF 1444 or bond paper. When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.